RAW SEQUENCE LISTING
PATENT APPLICATION US/09/419,788

DATE: 02/18/2000
TIME: 18:47:12

Input Set: I419788.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

<110> APPLICANT: FISCHER, Rainer
SCHILLBERG, Stefan
NAHRING, Jorg
SACK, Markus
MONECKE, Michael
LIAO, Yu-Cai
SPIEGEL, Holger
ZIMMERMAN, Sabine
EMANS, Neil
<120> TITLE OF INVENTION: Molecular Pathogenicide Mediated Plant Disease Resistance
<130> FILE REFERENCE: 0147-0189P
<140> CURRENT APPLICATION NUMBER: US/09/419,788
<141> CURRENT FILING DATE: 1999-10-18
<150> EARLIER APPLICATION NUMBER: 98 11 9630.6 EP
<151> EARLIER FILING DATE: 1998-10-16
<150> EARLIER APPLICATION NUMBER: 66/BOM/1998 INDIA
<151> EARLIER FILING DATE: 1998-10-16
<160> NUMBER OF SEQ ID NOS: 163
<170> SOFTWARE: PatentIn Ver. 2.1
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<223> OTHER INFORMATION: Description of Artificial Sequence: synthetic, no natural origin
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gacctgcagt gccagttcaa gtgtaagtaa aatgcaatgg tatcagcaga agtcaggcac 240
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caagctggag ataaaaggct ctactagtgg ttccgggaag agctctgaag gtaaaggtga 480
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<223> OTHER INFORMATION: Description of Artificial Sequence: synthetic, no natural origin

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acctgcagtg ccagttcaag tgtaagtaaa atgcaatggt atcagcagaa gtcaggcacc 180
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gagaagttca aaggcaaggc cacactgact tcagacaaat cctccaacac agcctacatg 660
gagctcagca gcctgacctc tgaggactct gcggtctatt actgtgcaag agactatgat 720
tacgactggt ttgcttactg gggccagggg actctggtca ctgtctctgc agtcgacgga 780
ggtggaggtt ctgcggccgc taagaagtat agggagtatt tcttgtggac tatttgtata 840
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acctgcagtg ccagttcaag tgtaagtaaa atgcaatggt atcagcagaa gtcaggcacc 180
tcccccaaaa gatggattta tgacacatcc aaactggcct ctggagtccc tggtcgcttc 240
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taaactcgag cgtctaga 918

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gtccagctgc agcagtctgg acctgagctg gtaaatcctg gggcttcagt gaagatgtcc 480
tgcaaggcct ctggatacac attcattacc tatgttatgc actgggtgaa gcagaagcct 540
gggcagggcc ttgagtggat tggatatatt aatcctaaca aagacggtac aaagttcaat 600
gagaagttca aaggcaaggc cacactgact tcagacaaat cctccaacac agcctacatg 660
gagctcagca gcctgacctc tgaggactct gcggtctatt actgtgcaag agactatgat 720
tacgactggt ttgcttactg gggccagggg actctggtca ctgtctctgc agtcgacgga 780
ggtggaggtt ctgcggccgc tgttgagtct aactcttcat ggtggaccaa ttgggtgatc 840
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<212> TYPE: DNA
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<220> FEATURE:
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gagctcagca gcctgacctc tgaggactct gcggtctatt actgtgcaag agactatgat 720
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ggtggaggtt ctgcggccgc ttggaagaat tgtaagatga tgattatgct tggtgctatt 840
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<210> SEQ ID NO 16

VERIFICATION SUMMARY
PATENT APPLICATION **US/09/419,788**

DATE: 02/18/2000
TIME: 18:47:12

Input Set: **I419788.RAW**

Line	?	Error/Warning	Original Text

RAW SEQUENCE LISTING
PATENT APPLICATION **US/09/419,788**

DATE: 02/18/2000
TIME: 18:47:12

Input Set: **I419788.RAW**

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<211> 1060
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35 40 45
Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Gly Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala
65 70 75 80
Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu
85 90 95
Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Gly Ser Thr Ser Gly
100 105 110
Ser Gly Lys Ser Ser Glu Gly Lys Gly Glu Val Gln Leu Gln Gln Ser
115 120 125
Gly Pro Glu Leu Val Asn Pro Gly Ala Ser Val Lys Met Ser Cys Lys
130 135 140
Ala Ser Gly Tyr Thr Phe Ile Thr Tyr Val Met His Trp Val Lys Gln
145 150 155 160
Lys Pro Gly Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn Pro Asn Lys
165 170 175
Asp Gly Thr Lys Phe Asn Glu Lys Phe Lys Gly Lys Ala Thr Leu Thr
180 185 190
Ser Asp Lys Ser Ser Asn Thr Ala Tyr Met Glu Leu Ser Ser Leu Thr
195 200 205
Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Asp Tyr Asp Tyr Asp
210 215 220
Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala Val
225 230 235 240
Asp Gly Gly Gly Ser Met Lys Arg Met Leu Ile Asn Ala Thr Gln Gln
245 250 255
Glu Glu Leu Arg Val Ala Leu Val Asp Gly Gln Arg Leu Tyr Asp Leu
260 265 270
Asp Ile Glu Ser Pro Gly His Glu Gln Lys Lys Ala Asn Ile Tyr Lys
275 280 285
Gly Lys Ile Thr Arg Ile Glu Pro Ser Leu Glu Ala Ala Phe Val Asp
290 295 300
Tyr Gly Ala Glu Arg His Gly Phe Leu Pro Leu Lys Glu Ile Ala Arg

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48          305                 310                 320
49  Glu Tyr Phe Pro Ala Asn Tyr Ser Ala His Gly Arg Pro Asn Ile Lys
50                      325                 330                 335
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Glu Arg Gly Asn Lys Gly Ala Ala Leu Thr Thr Phe Ile Ser Leu Ala
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Gly Ser Tyr Leu Val Leu Met Pro Asn Asn Pro Arg Ala Gly Gly Ile
    370                 375                 380
Ser Arg Arg Ile Glu Gly Asp Asp Arg Thr Glu Leu Lys Glu Ala Leu
385                 390                 395                 400
Ala Ser Leu Glu Leu Pro Glu Gly Met Gly Leu Ile Val Arg Thr Ala
                405                 410                 415
Gly Val Gly Lys Ser Ala Glu Ala Leu Gln Trp Asp Leu Ser Phe Arg
            420                 425                 430
Leu Lys His Trp Glu Ala Ile Lys Lys Ala Ala Glu Ser Arg Pro Ala
        435                 440                 445
Pro Phe Leu Ile His Gln Glu Ser Asn Val Ile Val Arg Ala Phe Arg
    450                 455                 460
Asp Tyr Leu Arg Gln Asp Ile Gly Glu Ile Leu Ile Asp Asn Pro Lys
465                 470                 475                 480
Val Leu Glu Leu Ala Arg Gln His Ile Ala Ala Leu Gly Arg Pro Asp
                485                 490                 495
Phe Ser Ser Lys Ile Lys Leu Tyr Thr Gly Glu Ile Pro Leu Phe Ser
            500                 505                 510
His Tyr Gln Ile Glu Ser Gln Ile Glu Ser Ala Phe Gln Arg Glu Val
        515                 520                 525
Arg Leu Pro Ser Gly Gly Ser Ile Val Ile Asp Ser Thr Glu Ala Leu
    530                 535                 540
Thr Ala Ile Asp Ile Asn Ser Ala Arg Ala Thr Arg Gly Gly Asp Ile
545                 550                 555                 560
Glu Glu Thr Ala Phe Asn Thr Asn Leu Glu Ala Ala Asp Glu Ile Ala
                565                 570                 575
Arg Gln Leu Arg Leu Arg Asp Leu Gly Gly Leu Ile Val Ile Asp Phe
            580                 585                 590
Ile Asp Met Thr Pro Val Arg His Gln Arg Ala Val Glu Asn Arg Leu
        595                 600                 605
Arg Glu Ala Val Arg Gln Asp Arg Ala Arg Ile Gln Ile Ser His Ile
    610                 615                 620
Ser Arg Phe Gly Leu Leu Glu Met Ser Arg His Arg Leu Ser Pro Ser
625                 630                 635                 640
Leu Gly Glu Ser Ser His His Val Cys Pro Arg Cys Ser Gly Thr Gly
                645                 650                 655
Thr Val Arg Asp Asn Glu Ser Leu Ser Leu Ser Ile Leu Arg Leu Ile
            660                 665                 670
Glu Glu Glu Ala Leu Lys Glu Asn Thr Gln Glu Val His Ala Ile Val
        675                 680                 685
Pro Val Pro Ile Ala Ser Tyr Leu Leu Asn Glu Lys Arg Ser Ala Val
    690                 695                 700
Asn Ala Ile Glu Thr Arg Gln Asp Gly Val Arg Cys Val Ile Val Pro
705                 710                 715                 720
Asn Asp Gln Met Glu Thr Pro His Tyr His Val Val Arg Val Arg Lys
                725                 730                 735
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Gly Glu Glu Thr Pro Thr Leu Ser Tyr Met Leu Pro Lys Leu His Glu
            740                 745                 750
Glu Ala Met Ala Leu Pro Ser Glu Glu Glu Phe Ala Glu Arg Lys Arg
        755                 760                 765
Pro Glu Gln Pro Ala Leu Ala Thr Phe Ala Met Pro Asp Val Pro Pro
    770                 775                 780
Ala Pro Thr Pro Ala Glu Pro Ala Ala Pro Val Val Ala Pro Ala Pro
785                 790                 795                 800
Lys Ala Ala Pro Ala Thr Pro Ala Ala Pro Ala Gln Pro Gly Leu Leu
                805                 810                 815
Ser Arg Phe Phe Gly Ala Leu Lys Ala Leu Phe Ser Gly Gly Glu Glu
            820                 825                 830
Thr Lys Pro Thr Glu Gln Pro Ala Pro Lys Ala Glu Ala Lys Pro Glu
        835                 840                 845
Arg Gln Gln Asp Arg Arg Lys Pro Arg Gln Asn Asn Arg Arg Asp Arg
    850                 855                 860
Asn Glu Arg Arg Asp Thr Arg Ser Glu Arg Thr Glu Gly Ser Asp Asn
865                 870                 875                 880
Arg Glu Glu Asn Arg Arg Asn Arg Arg Gln Ala Gln Gln Gln Thr Ala
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Glu Thr Arg Glu Ser Arg Gln Gln Ala Glu Val Thr Glu Lys Ala Arg
            900                 905                 910
Thr Ala Asp Glu Gln Gln Ala Pro Arg Arg Glu Arg Ser Arg Arg Arg
        915                 920                 925
Asn Asp Asp Lys Arg Gln Ala Gln Gln Glu Ala Lys Ala Leu Asn Val
    930                 935                 940
Glu Glu Gln Ser Val Gln Glu Thr Glu Gln Glu Glu Arg Val Arg Pro
945                 950                 955                 960
Val Gln Pro Arg Arg Lys Gln Arg Gln Leu Asn Gln Lys Val Arg Tyr
                965                 970                 975
Glu Gln Ser Val Ala Glu Glu Ala Val Val Ala Pro Val Val Glu Glu
            980                 985                 990
Thr Val Ala Ala Glu Pro Ile Val Gln Glu Ala Pro Ala Pro Arg Thr
        995                1000                1005
Glu Leu Val Lys Val Pro Leu Pro Val Val Ala Gln Thr Ala Pro Glu
   1010                1015                1020
Gln Gln Glu Glu Asn Asn Ala Asp Asn Arg Asp Asn Gly Gly Met Pro
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Ser Ser Leu Ser
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<223> Description of Artificial Sequence: synthetic, no natural origin
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152 ccaaaccaaa cc 72